

What is claimed is:

1 1. An inkjet cartridge for dispensing a predetermined
2 amount of fluids comprising:

3 an inkjet print head having a plurality of channels; and
4 an array of capillary tubes, filled with predetermined
5 fluids, disposed on the inkjet print head so as to communicate
6 with the channels respectively and provide capillarity
7 sufficient to prevent the fluids in the capillary tubes from
8 leaking through the channels but not so great as to prevent
9 the fluids in the capillary tubes from dispensing through the
10 channels.

1 2. The inkjet cartridge as claimed in claim 1, wherein
2 the inkjet print head comprises:

3 a base, having a plurality of first through holes
4 corresponding to the capillary tubes respectively, for
5 receiving the capillary tubes;

6 an inkjet chip, for actuating the fluids in the capillary
7 tubes to dispense, disposed on the base and provided with a
8 plurality of second through holes corresponding to the first
9 through holes respectively; and

10 a nozzle plate, for dispensing the fluids in the
11 capillary tubes, disposed on the inkjet chip and provided with
12 a plurality of orifices corresponding to the second through
13 holes respectively, wherein the first through holes, the
14 second through holes and the orifices form the channels
15 respectively.

1 3. The inkjet cartridge as claimed in claim 2, wherein
2 the inkjet chip is adhered to the base.

1 4. The inkjet cartridge as claimed in claim 2, wherein
2 the nozzle plate is adhered to the inkjet chip.

1 5. The inkjet cartridge as claimed in claim 1, wherein
2 each of the capillary tubes is filled with gel-like materials
3 above the received fluid so as to prevent the fluid from
4 leaking.

1 6. The inkjet cartridge as claimed in claim 1, wherein
2 each of the capillary tubes is filled with oil-like materials
3 above the received fluid so as to prevent the fluid from
4 leaking.

1 7. The inkjet cartridge as claimed in claim 1, wherein
2 the inkjet print head is thermal bubble type.

1 8. The inkjet cartridge as claimed in claim 1, wherein
2 the inkjet print head is piezoelectric pressure wave type.

1 9. The inkjet cartridge as claimed in claim 1, further
2 comprising:

3 a cap, with a pressure regulator, disposed on the
4 capillary tubes so that the capacity of the fluid in the
5 capillary tube can be enlarged without causing leakage.

1 10. A cartridge for dispensing a predetermined amount
2 of reagents comprising:

3 a print head having a plurality of channels; and
4 an array of capillary tubes, filled with predetermined
5 reagents, disposed on the print head so as to communicate with
6 the channels respectively and provide capillarity sufficient
7 to prevent the reagents in the capillary tubes from leaking
8 through the channels but not so great as to prevent the
9 reagents in the capillary tubes from dispensing through the
10 channels.

1 11. The cartridge as claimed in claim 10, wherein the
2 print head comprises:

3 a base, having a plurality of first through holes
4 corresponding to the capillary tubes respectively, for
5 receiving the capillary tubes;

6 a inkjet chip, for actuating the reagents in the
7 capillary tubes to dispense, disposed on the base and provided
8 with a plurality of second through holes corresponding to the
9 first through holes respectively; and

10 a nozzle plate, for dispensing the reagents in the
11 capillary tubes, disposed on the inkjet chip and provided with
12 a plurality of orifices corresponding to the second through
13 holes respectively, wherein the first through holes, the
14 second through holes and the orifices form the channels
15 respectively.

1 12. The cartridge as claimed in claim 11, wherein the
2 inkjet chip is adhered to the base.

1 13. The cartridge as claimed in claim 11, wherein the
2 nozzle plate is adhered to the inkjet chip.

1 14. The cartridge as claimed in claim 10, wherein each
2 of the capillary tubes is filled with gel-like materials above
3 the received reagent so as to prevent the reagent from
4 leaking.

1 15. The cartridge as claimed in claim 10, wherein each
2 of the capillary tubes is filled with oil-like materials above
3 the received reagent so as to prevent the reagent from
4 leaking.

1 16. The cartridge as claimed in claim 10, wherein the

2 print head is thermal bubble type.

1 17. The cartridge as claimed in claim 10, wherein the
2 print head is piezoelectric pressure wave type.

1 18. The cartridge as claimed in claim 10, further
2 comprising:

3 a cap, with a pressure regulator, disposed on the
4 capillary tubes so that the capacity of the fluid in the
5 capillary tube can be enlarged without causing leakage.